ARNOLD & PORTER



202.942.5000 202.942.5999 Fax

555 Twelfth Street, NW Washington, DC 20004-1206

December 12, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Application No. 10/656,093

Filed:

September 5, 2003

Title:

Inotropic and Diuretic Effects of GLP-1 and

. GLP-1 Agonists

Applicants:

Andrew A. YOUNG et al.

Atty. Docket: 18528.632

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office (PTO):

- 1. an Information Disclosure Statement and PTO-1449 form (3 pages); and
- 2. a return postcard.

Please stamp the attached postcard with the filing date of these documents and return it to our courier.

In the event that extensions of time are necessary to prevent abandonment of this application, then such extensions of time are hereby petitioned. Applicants do not believe any fees are due in conjunction with this filing. However, if any fees under 37 C.F.R. §§ 1.16 or 1.17 are required in the present application, including any fees for extensions of time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter Deposit Account No. 50-2387, referencing matter number 18528.632. A duplicate copy of this letter is enclosed.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)

Milan M. Vinnola (Reg. No. 45,979)

Attachments

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Andrew A. YOUNG et al. Group Art Unit: To Be Assigned

Appln. No.: 10/656,093 Examiner: To Be Assigned

Filed: September 5, 2003 Atty. Docket: 18528.632

For: Inotropic and Diuretic Effects of GLP-1 and GLP-1 Agonists

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The attention of the Examiner is invited to the references listed on the attached Form PTO-1449. These references were previously considered in an earlier filed application, U.S. Patent Application Serial No. 09/622,105, filed September 9, 2000, upon which the instant application relies on for an earlier effective filing date under 35 U.S.C. 120. Applicants further submit that the references filed in the Information Disclosure Statement in the earlier application complied with 37 C.F.R. 1.98(a)-(c). Accordingly, Applicants submit that under 37 C.F.R. 1.98(d)(1)-(2), copies of the listed references need not be provided. However, the Examiner is requested to notify the Applicants should he/she require a copy of any or all of the listed references.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Because this Information Disclosure Statement is being submitted prior to issuance of the first action on the merits of the above-captioned application, no certification or fee is required.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)

Milan M. Vinnola (Reg. No. 45,979)

Date: December 12, 2003

ARNOLD & PORTER 555 Twelfth Street, N.W. Washington, D.C. 20004-1206 (202) 942-5000 telephone (202) 942-5999 facsimile

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				18528.632	10/656	10/656,093		
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INITIAL	AA1	5,424,286	6/1995	NAME Eng		CLASS	CLASS	FILING DATE
	AB1	5,512,549	4/1996	Chen			-	
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	AFI	WO 98/05351	2/1998	PCT				Yes No
	AG1	WO 99/07404	2/1999	PCT				Yes No
	_l	<u> </u>	OTHER	(Including	Author, Title, Date, Pertinent Pages,	eto)	<u> </u>	140
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	AJI							Glucose
	AJ1	Tolerance after Edwards et al.	r Nutrient I	ngestion by scular and		<u>vest.</u> , 97(1):133-13	38 (1996)	
		Edwards et al. the Conscious	r Nutrient I , "Cardiova Calf', <u>Exp.</u> "Rat Gastrio	scular and Physiol.,	y Healthy Baboons", <u>J. Clin. In</u> Pancreatic Endocrine Respons	es to Glucagon-Lik	s 8 (1996) re Peptide-1	(7-36) Amide in
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considered. Include copy of this form with next communication to Applicant.

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			18528.632	10/656,093				
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a In	AA2	Ferguson et al., "Cell-Surface Ancho Biochem., 57:285-320 (1988)	oring of Proteins via Glycosylph	osphatidylinositol Structures", Annu. Rev.				
	AB2	Göke <i>et al.</i> , "Exendin-4 is a High Potency Agonist and Truncated Exendin-(9-39)-amide an Antagonist at the Glucagon-like Peptide 1-(7-36)-amide Receptor of Insulin-secreting β-Cells", <u>J. Biol. Chem.</u> , 268(26):19650-19(1993)						
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	AD2							
	AE2							
	AF2	Montrose-Rafizadeh <i>et al.</i> , "Structure-function Analysis of Exendin-4 / GLP-1 Analogs", <u>Diabetes</u> , 45(Su 2):152A (1996) O'Halloran <i>et al.</i> , "Glucagon-like peptide-1 (7-36)-NH ₂ : a physiological inhibitor of gastric acid secretion <u>Journal of Endocrinology</u> , 126:169-173 (1990)						
	AG2							
	AH2	AH2 Ørskov et al., "Biological Effects and Metabolic Rates of Glucagonlike Peptide-1 7-36 Amide and Glepetide-1 7-37 in Healthy Subjects are Indistinguishable", <u>Diabetes</u> , 42:658-661 (1993) Raufman et al., "Exendin-3, a Novel Peptide from Heloderma horridum Venom, Interacts with Vasor Intestinal Peptide Receptors and a Newly Described Receptor on Dispersed Acini from Guinea Pig Pagiol. Chem., 266(5):2897-2902 (1991)						
	A12							
	Raufman <i>et al.</i> , "Truncated Glucagon-like Peptide-1 Interacts with Exendin Receptors in Dispersed Acini Guinea Pig Pancreas", J. Biol. Chem., 267(30):21432-21437 (1992)							
	AK2	Schioldager et al. "GLP-1 (Glucagon-like Pentide 1) and Truncated GLP-1 Fragments of Human Proglucagon						
	AL2							
	AM2	Singh et al., "Use of ¹²⁵ I-[Y ³⁹]exend chief cells from guinea pig", <u>Regula</u>	ingh et al., "Use of ¹²⁵ I-[Y ³⁹]exendin-4 to characterize exendin receptors on dispersed pancreatic acini and gastric hief cells from guinea pig", Regulatory Peptides, 53:47-59 (1994)					
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		ATTY. DOCKET NO.	APPLICATION NO.				
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	ang-Christensen <i>et al.</i> , "Central adm m. J. Physiol., 271:R848-R856 (199	ninistration of GLP-1-(7-36) amide inhib 96)	oits food and water intake in rats",				
	Thorens et al., "Expression cloning of the Pancreatic β cell receptor for the gluco-incretin hormone glucagon-like peptide 1", Proc. Natl. Acad. Sci. USA, 88:8641-8645 (1992)						
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AD3 Tu	Turton et al., "A role for glucagon-like peptide-1 in the central regulation of feeding", Nature, 379:69-72 (1996)						
AE3 W	ang et al., "Glucagon-like Peptide-	l is a Physiological Incretin in Rat", <u>J. C</u>	Clin. Invest., 95:417-421 (1995)				
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AG3 Ex	Willms et al., "Gastric Emptying, Glucose Responses, and Insulin Secretion after a Liquid Test Meal: Effects of Exogenous Glucagon-Like Peptide-1 (GLP-1)-(7-36) Amide in Type 2 (Noninsulin-Dependent) Diabetic Patients" J. Clin. Endocrinol. Metab., 81(1):327-332 (1996)						
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